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## DEVICE AND SYSTEM FOR INTEGRATING AND PROCESSING INFRARED (IR) AND RADIO FREQUENCY (RF) SIGNALS

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### Abstract

A device and system for integrating and processing Infrared (IR) and Radio Frequency (RF) signals is disclosed. The preferred system and device includes means for receiving both IR and RF signals. The device includes a dual mode signal conditioning means for processing received IR and RF signals. The device further is available in a variety of embodiments, including devices capable of transmitting IR signals only, devices capable of transmitting RF signals only, and "dual mode" devices capable of transmitting both IR and RF signals. The preferred device also includes transmit switch means for switching a transmit module between IR transmission and RF transmission modes. The preferred device further permits simultaneous transmission of IR and RF signals.

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